

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
25 November 2004 (25.11.2004)

PCT

(10) International Publication Number
WO 2004/101726 A3

(51) International Patent Classification⁷: C11D 3/00, 1/40,
3/20, 3/02, A61L 2/18, A01N 31/02, 31/04, 59/12, 59/00

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(21) International Application Number:

PCT/GB2004/002148

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

(22) International Filing Date: 17 May 2004 (17.05.2004)

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

(25) Filing Language:

English

— of inventorship (Rule 4.17(iv)) for US only

(26) Publication Language:

English

Published:

— with international search report

(30) Priority Data:

0311174.7 15 May 2003 (15.05.2003) GB
PCT/GB03/03296 30 July 2003 (30.07.2003) GB

(71) Applicant (for all designated States except US): GREENBRIDGE ENVIRONMENTAL CONTROL LIMITED [GB/GB]; Saint Bartholomews, Lewins Mead, Bristol, BS1 2NH (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MALYSZEWICZ, Christopher [GB/GB]; 12 Waggoners Way, Bugbrooke, Northampton, Northamptonshire NN7 3QT (GB).

(74) Agents: CARLIN, Robert, George et al.; Olswang, 90 High Holborn, London, WC1V 6XX (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(88) Date of publication of the international search report:
17 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTI-VIRAL AND ANTI-BACTERIAL CLEANING COMPOSITION

(57) Abstract: A composition comprising at least one alcohol, at least one long-chain alkyl polyamine, and at least one halogen which is suitably for application to a surface and substantially microbial contamination.

WO 2004/101726 A3

INTERNATIONAL SEARCH REPORT

PCT/GB2004/002148

A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C11D3/00	C11D1/40	C11D3/20	C11D3/02	A61L2/18
	A01N31/02	A01N31/04	A01N59/12	A01N59/00	

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D A61L A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 199 18 475 A (HENKEL ECOLAB & CO OGH) 26 October 2000 (2000-10-26) page 1, lines 3-30 page 5, lines 27-33; claims 1,4,7-9 -----	1-8, 13-29, 34
Y	US 5 276 047 A (OLTMANNS PETER ET AL) 4 January 1994 (1994-01-04) column 1, line 39 - column 2, line 10 -----	1-8, 13-29, 34
Y	US 6 387 856 B1 (BOUCHER JEFFREY EDWARD ET AL) 14 May 2002 (2002-05-14) column 1, lines 10-18 column 2, lines 7-41; claims; example 1 -----	1-8, 13-29, 34
Y	WO 93/07250 A (NOVAPHARM RES AUSTRALIA) 15 April 1993 (1993-04-15) claims 1-7; example 5 -----	1-8, 13-29, 34

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 August 2004	08 11. 2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Pentek, E

INTERNATIONAL SEARCH REPORT**PCT/GB2004/002148****Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-29, 34

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-29,34

compositions comprising at least one alcohol, at least one long chain alkyl polyamine, and at least one halogen; and the method for manufacturing said composition.

2. claims: 30-33

Means of destroying bacteria and/or inhibiting the ability of bacteria and/or viruses to replicate when said bacteria and/or viruses are present on a surface, by application of a composition to said surface.

INTERNATIONAL SEARCH REPORT

PCT/GB2004/002148

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
DE 19918475	A	26-10-2000	DE 19918475 A1 DE 50003366 D1 WO 0064496 A1 EP 1173230 A1		26-10-2000 25-09-2003 02-11-2000 23-01-2002
US 5276047	A	04-01-1994	NONE		
US 6387856	B1	14-05-2002	AU 6392599 A EP 1115829 A1 JP 2002525418 T WO 0018867 A1		17-04-2000 18-07-2001 13-08-2002 06-04-2000
WO 9307250	A	15-04-1993	WO 9307250 A1		15-04-1993